

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A linear image sensor comprising:
at least one photodiode arrays array; and
a shutter structure provided parallel to the photodiode arrays, the shutter structure including: a shutter electrode; and a shutter drain provided below the shutter gate electrode constituting the shutter structure.
2. (original): A linear image sensor according to claim 1, wherein an upper portion of the shutter drain is covered with the shutter gate electrode.
3. (currently amended): A linear image sensor according to claim 1, wherein the number of the photodiode ~~arrays array~~ is set to only one.
4. (original): A linear image sensor according to claim 1, wherein the shutter structure is provided between the photodiode arrays.
5. (original): A linear image sensor comprising:
a photodiode array;

a readout gate provided parallel to the photodiode array on one side of the photodiode array;

a CCD shift register provided parallel to the readout gate;

an output circuit provided for output from the CCD shift register; and

a shutter structure provided parallel to the photodiode array on the other side of the photodiode array, the shutter structure including: a shutter gate electrode that is provided parallel to the photodiode array on the other side of the photodiode array; and a shutter drain provided below the shutter gate electrode.

6. (original): A linear image sensor according to claim 5, wherein an upper portion of the shutter drain is covered with the shutter gate electrode.

7. (original): A linear image sensor comprising:

a photodiode array pair provided parallel to each other;

a shutter gate electrode that is provided parallel to the photodiode array pairs so as to be common to the photodiode array pair; and

a shutter drain that is provided below the shutter gate electrode.

8. (original): A linear image sensor according to claim 7, wherein an upper portion of the shutter drain is covered with the shutter gate electrode.

PRELIMINARY AMENDMENT
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9. (original): A linear image sensor according to claim 7, wherein:

three pairs of the photodiode array pair are provided parallel to one another; and

each photodiode array pair includes one of color filters having different colors that are

RGB.